## I Claim:

- 1. A semiconductor component, comprising:
- a semiconductor substrate;
- an insulation layer on said semiconductor substrate;
- a semiconductor layer configured on said insulation layer;
- a first doped terminal zone and a second doped terminal zone formed in said insulation layer; and
- a drift zone formed in said insulation layer;

said drift zone formed between said first doped terminal zone and said second doped terminal zone; and

- at least one of said first doped terminal zone and said second doped terminal zone directly adjoining said semiconductor substrate.
- 2. The semiconductor component according to claim 1, wherein said first terminal zone and said second terminal zone reach through said insulation layer into said substrate.

- 3. The semiconductor component according to claim 2, wherein said first terminal zone and said second terminal zone are doped complementary with respect to said semiconductor substrate.
- 4. The semiconductor component according to claim 1, wherein said second terminal zone is of a complementary conduction type with respect to said first terminal zone.
- 5. The semiconductor component according to claim 1, comprising:
- a depletion zone configured between said second terminal zone and said drift zone;

said depletion zone having a conduction type; and

said first terminal zone and said second terminal zone having a conduction type that is complementary to said conduction type of said depletion zone.

6. The semiconductor component according to claim 1, wherein:

said first terminal zone has a conduction type; and

said drift zone has a conduction type that is equivalent to the conduction type of said first terminal zone.

- 7. The semiconductor component according to claim 1, wherein said drift zone includes a plurality of complementary doped adjacent sections.
- 8. The semiconductor component according to claim 7, wherein:

said plurality of said complementary doped adjacent sections includes first sections and second sections;

said first sections and said first terminal zone are of a first conduction type;

said first sections are connected to said first terminal zone;

said second sections and said depletion zone are of a second conduction type complementary to said first conduction type; and

said second sections are connected to said depletion zone.

9. The semiconductor component according to claim 7, wherein:

said plurality of said complementary doped adjacent sections includes first sections and second sections;

said first sections and said first terminal zone are of a first conduction type;

said first sections are connected to said first terminal zone;

said second sections and said second terminal zone are of a second conduction type complementary to said first conduction type; and

said second sections are connected to said second terminal zone.

- 10. The semiconductor component according to claim 7, wherein said plurality of said complementary doped adjacent sections run in a longitudinal direction between said first terminal zone and said second terminal zone.
- 11. The semiconductor component according to claim 10, wherein:

said plurality of said complementary doped adjacent sections includes first sections and second sections;

said first sections and said first terminal zone are of a first conduction type;

said first sections are connected to said first terminal zone;

said second sections and said depletion zone are of a second conduction type complementary to said first conduction type; and

said second sections are connected to said depletion zone.

12. The semiconductor component according to claim 10, wherein:

said plurality of said complementary doped adjacent sections includes first sections and second sections;

said first sections and said first terminal zone are of a first conduction type;

said first sections are connected to said first terminal zone;

said second sections and said second terminal zone are of a second conduction type complementary to said first conduction type; and

said second sections are connected to said second terminal zone.

13. The semiconductor component according to claim 10, comprising:

a depletion zone configured between said second terminal zone and said drift zone;

said plurality of said complementary doped adjacent sections running between said first terminal zone and said depletion zone.

14. The semiconductor component according to claim 1, wherein:

said semiconductor substrate is p-doped; and

the one of said first doped terminal zone and said second doped terminal zone that directly adjoins said semiconductor substrate is n-doped.